

PTOO/SB/08A (10-01)
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet **1** of **4**

Complete if Known

Application Number	09/837,860
Filing Date	April 17, 2001
First Named Inventor	James F. Kramer
Art Unit	2674
Examiner Name	Xiao Min Wu
Attorney Docket Number	IMMR057/00US

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U.S. PATENT DOCUMENTS					
Examiner	Cite No. ¹	Document Number Number Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
Xu		6,497,672	12/24/2002	Kramer	
		6,422,941	7/23/2002	Thorner et al.	
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		5,631,861	5/20/1997	Kramer	
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		4,127,752	11/28/1978	Lowthorp	
		2,972,140	2/14/1961	Hirsch	
		2001/0043847	11/22/2001	Kramer	

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Technology Center 2600**OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS**

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
		PATRICK, "Design, Construction, and Testing of a Fingertip Tactile Display for Interaction with Virtual and Remote Environments," Master of Science Thesis, MIT, Aug. 1990, archived Nov. 8, 1990.
		GALDER, "Design of A Force-Feedback Touch-Introducing Actuator For Teleoperator Robot Control," Bachelor of Science Thesis, MIT, May 1983, archived June 23, 1983.
		WIKER, "Teletouch Display Development: Phase 1 Report," Technical Report 1230, Naval Ocean Systems Center, San Diego, July 1988.
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		JOHNSON, "Shape-Memory Alloy Tactile-Feedback Actuator," Armstrong Aerospace Medical Research Laboratory, AAMRL-TR-90-039, August, 1990.
		KONTARINIS et al., "Tactile Display of Vibratory Information in Teleoperation and Virtual Environments," PRESENCE, 4(4):387-402, Harvard Univ., 1993.
		AUKSTAKALNIS et al., "Silicon Mirage: The Art and Science of Virtual Reality," ISBN 0-938151-82-7, pp. 129-180, 1992.
		ESBERHARDT et al., "Inducing Dynamic Haptic Perception by The Hand: System Description and Some Results," DSC Vol. 55-1, Dynamic Systems and Control Volume 1, ASME 1994.
		GOBEL et al., "Tactile Feedback Applied to Computer Mice," International Journal of Human-Computer Interaction, Vol. 7, No. 1, pp. 1-24, 1996.
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		Cyberman Technical Specification, "Logitech Cyberman SWIFT Supplement to Logitech Mouse Technical Reference and Programming Guide, 4/5/1994.
		QUINYUNG et al., "The Development of A Low-Cost Force Feedback Joystick and Its Use in the Virtual Reality Environment," Proceedings of the Third Pacific Conference on Computer Graphics and Applications, Pacific Graphics '95, Seoul, Korea, 21-24 August 1995.
		KACZMAREK et al., "Tactile Displays," Virtual Environment Technologies, Chap. 9, pp. 349-414.
		LAKE, "Cyberman from logitech," at http://www.ibiblio.org/CameBytes/issue24/reviews/cyberman.html, 1994.
		"Component Maintenance Manual With Illustrated Parts List, Coaxial Control Shaker Part No. C-25502," Safe-Flight Instrument Corporation, Revised 28 January 2003 (3 pages).

Examiner Signature	XIAO WU	Date Considered	2-7-05
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		Country Code ³	Number ⁴	Kind Code ⁵ (if known)			
		JP	H2-186278		7/19/1990	Taito Corporation	
		JP	H4-8381		1/13/1992	Epoch Co. and Key- Planning Co.	
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		JP	H5-192449		8/3/1993	Taito Corporation	

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Signature

XIAO Wu

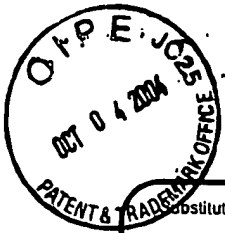
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OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS		
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
		Technical Manual Overhaul Instructions With Parts Breakdown, Coaxial Control Shaker Part No. C-25502, Safe Flight Instrument Corporation, Revised 15 July 1980 (23 pages)
		MCANNELL, "Taking a Joystick Ride," Computer Currents, Boston Edition, Vol. 9, No. 11, November 1984
		YAMAKITA et al., "Tele-Virtual Reality of Dynamic Mechanical Model," Proceedings of the 1992 IEEE RSJ International Conference on Intelligent Robots and Systems, Raleigh, NC, July 7-10, 1992
		NOLL, "Man-Machine Tactile," SID Journal, July/August 1972 Issue
		ROSENBERG, "Virtual Fixtures: Perceptual Overlays Enhance Operator Performance in Telepresence Tasks," Ph.D. Dissertation, Stanford University, June 1994
		ZILLES, "A Constraint-Based God-Object Method for Haptic Display," Department of Mechanical Engineering, Artificial Intelligence Laboratory, Massachusetts Institute of Technology, undated

Examiner Signature	XIAO Wu	Date Considered	2-17-05
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